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PN - JP11310469 A 19991109  
EC - C04B35/66  
IC - C04B35/66  
FI - C04B35/66&A  
FT - 4G033/AA02 ; 4G033/AA03 ; 4G033/AA09  
TI - REFRACTORY FOR REGENERATOR OF GLASS FURNACE  
PA - TOSHIBA CERAMICS CO  
IN - IMAI ISAO;EBINA MAKOTO;TERANISHI HISAHIRO  
AP - JP19980132705 19980427  
PR - JP19980132705 19980427  
DT - WF  
PD - 1999-11-09  
OPD - 1998-04-27  
NPR - 1

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AN - 2000-109181 [10]  
TI - Refractory for glass kiln regenerator - comprises sintered compact of magnesia rich spinel containing specific ratio of magnesia and alumina  
AB - JP11310469 NOVELTY - The refractory for glass kiln regenerator with MgO/Al<sub>2</sub>O<sub>3</sub> weight ratio of 40/60 or 60/40, is present in sintered compact of magnesia rich spinel clinker powder.  
- USE - The refractory is used as checker brick in glass kiln regenerator.  
- ADVANTAGE - Excels in SO-proof characteristic and hence prevents corrosion. Offers usage in areas having phosphorus and antimony components due to corrosion resist nature.  
- (Dwg.0/0)  
IW - REFRACTORY GLASS KILN REGENERATE COMPRISE SINTER COMPACT MAGNESIA RICH SPINEL CONTAIN SPECIFIC RATIO MAGNESIA ALUMINA  
PN - JP11310469 A 19991109 DW200010 C04B35/66 004pp  
IC - C04B35/66  
MC - L01-C L02-E04  
DC - L02  
PA - (TOSF ) TOSHIBA CERAMICS CO  
AP - JP19980132705 19980427  
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TI - REFRACTORY FOR REGENERATOR OF GLASS FURNACE

AB - PROBLEM TO BE SOLVED: To obtain refractory suitable for checker brick used for a regenerator additionally installed in a glass furnace by clacining magnesia-rich spinel clinker powder specified in a specific range of the weight content ratio of  $\text{MgO}/\text{Al}_2\text{O}_3$ .

- SOLUTION: This refractory is obtained by calcining magnesia-rich spinel clinker powder having a weight content ratio  $\text{MgO}:\text{Al}_2\text{O}_3$  of (40:60)-(60:40), pref. (45:55)-(55:45) and is excellent in corrosion resistance even when the refractory contains phosphorus and/or antimonial contaminant, and is useful for a regenerator (esp. used for middle stage). The spinel clinker powder pref. contains  $\geq 50$  wt.% particles having a particle diameter of  $\leq 1$  mm and is calcined at about 1,600-1,700 deg.C for about 3 h. An increase in minuteness and compressive strength and the decrease of apparent porosity are actualized by mixing pure spinel clinker powder in which the weight ratio of  $\text{MgO}/\text{Al}_2\text{O}_3$  is (20/80)-(40/60), pref. (25/75)-(35/65) and the particle diameter is  $\geq 1$  mm in a quantity of about 45-15 wt.%, with the refractory.

I - C04B35/66

PA - TOSHIBA CERAMICS CO LTD

IN - EBINA MAKOTO/MAI ISAO/TERANISHI HISAHIRO

ABD - 20000229

ABV - 200002

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